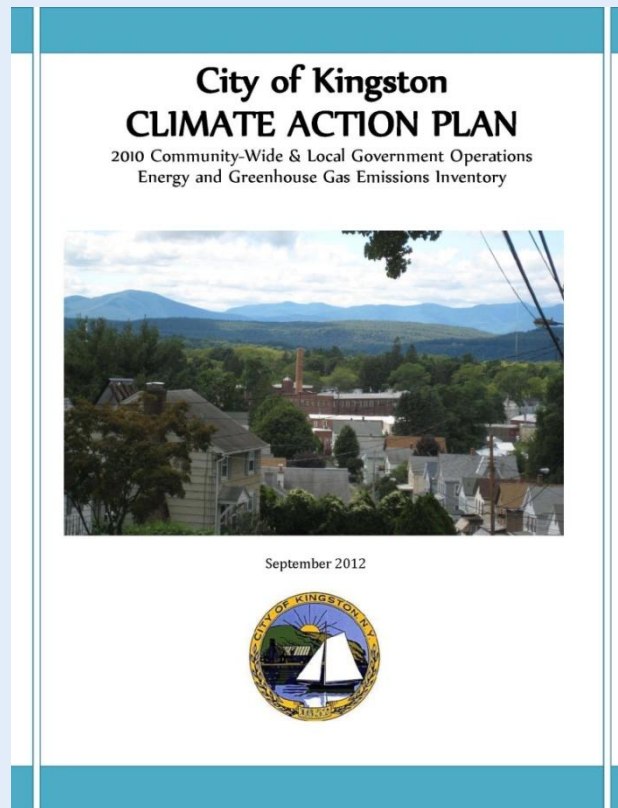


City of Kingston Climate Action Planning



Climate Action Task Force
Meet and Greet Orientation
March 14th, 2013

City of Kingston
Climate Action Planning



Climate Action Plan Background

Climate Smart and Green Jobs Community Pledge

Joined Communities Statewide: Climate Smart Communities
2009, Adopted by Kingston Common Council
Require Action Plan be developed



Climate Smart and Green Jobs Task Force convened

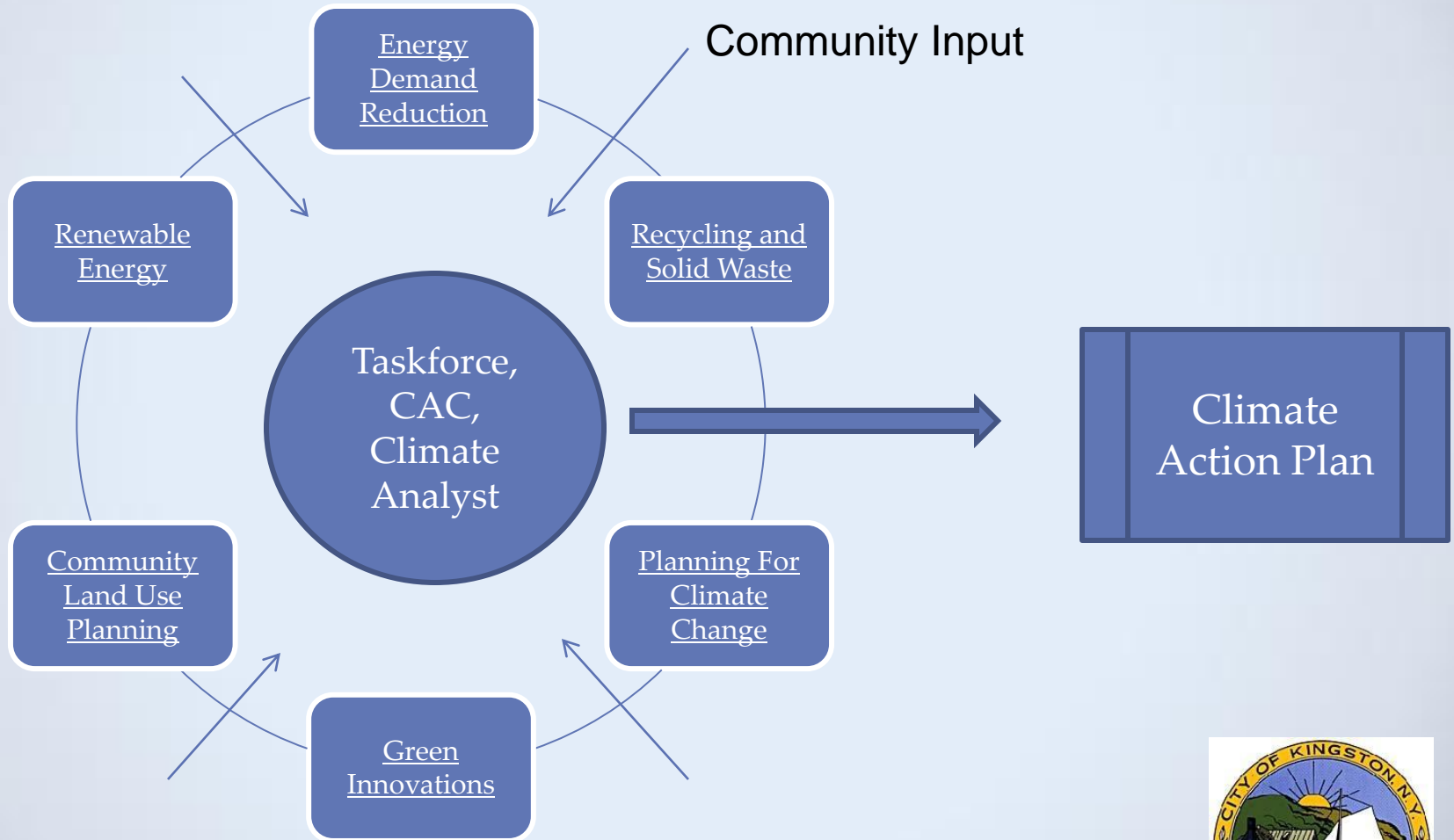
Goal: reduce energy usage and GHG emissions 20% by 2020: 20 by 20

NYSERDA Grant and Analyst

Rich Schiafo (Employed March 2011-April 2012)



Climate Smart Strategy



Greenhouse Gas Inventory

ICLEI

City joined ICLEI

-Clean Air Cool Planet Community Catalyst Fund
Assistance with GHG inventory and plan



Data Gathering: 2010 Baseline Year Established

City Government and Kingston Community

Worked with Department Heads and Interns to gather information

City of Kingston
Climate Action Planning



City of Kingston Climate Action Planning

DRAFT Climate Action Plan with GHG Inventory

Findings, Goals and Recommendations

Five Major Sectors:

- Energy and Renewables
- Land Use and Transportation
- Materials Management
- Sustainable Resource Management
- Climate Adaptation



Key Greenhouse Gas Inventory Data Results

Kingston Community

Emitted 225,097 tonnes of CO₂e

City Government

7,281 tonnes of CO₂e

2010 Costs were \$1,590,415

4.6% of the 2010 municipal budget

Community Data by Sector

(% Total Energy Use)

Transportation	40%
Commercial	32%
Residential	27%
Industrial	1%

Municipal Energy Sources

(% Energy Cost)

Electricity	64%
Natural Gas	9%
Fuel Oil	1%
Propane	<1%
Vehicle Fuel Gas	13%
Vehicle Fuel Diesel	13%



Buildings and Facilities

Findings: City Government

Each building was ranked according to energy consumption

Top Five Electric Users

- Wastewater Treatment Plant
- Police/Court Building
- City Hall
- Water Treatment – Sawkill
- DPW Garage



Top Five Natural Gas Users

- Andy Murphy Neighborhood Center
- City Hall
- Wastewater Treatment Plant
- Police/Court Building
- Rondout Neighborhood Center



Land Use, Transportation and Vehicles

Findings



Transportation is the community's largest energy use

158,782,140 vehicles miles traveled (VMT) in the City of Kingston using 8,613,576 gallons of gasoline in 2010

Goals by 2020

- 20% reduction of single occupancy vehicle use and VMT's

- 20% increase in use of transit

- 20% reduction in single occupancy commuting by city employees

- Sidewalks in good repair, bike infrastructure and rail trails improved/created



Vehicle Energy Use and GHG Emissions

Findings

The City of Kingston has approximately 165 vehicles
Average fuel efficiency of the fleet is 11 miles per gallon
Department of Public Works, Kingston Police Department
and Citibus produced 88% of the CO₂e emissions related to vehicle use



Goals by 2020

Electric vehicle infrastructure is in place at several locations City-wide,
including municipal government facilities
City government has doubled the fuel efficiency of its fleet
Fuel usage (gas and diesel) has been reduced by 20%
20% of City government vehicle fleet is hybrid and alternative fuel vehicles
Alternative-fueled transit vehicles and refuse packers are part of the City
hybrid and alternative fuel fleet
An active and successful car-share program exists in the City



Materials Management

Findings

DPW Collected 13,827.1 tons of materials

8,768.8 tons of “Waste”

1,538.49 of Curbside Recycling

3,519 tons of “Other” recyclables

“Waste” collected by City DPW is 5.7% of total waste collected by the county and 2.8% of recyclables collected by the county

Partial picture as City DPW does not pick up all waste in the City



Goals by 2020

Reduce the overall waste generated in the City of Kingston by 20%

Increase the overall recycling rates in the City of Kingston by 20%

10% waste reduction per year beginning in 2013

Long-term Goal: Zero-waste

10% paper use reduction per year beginning in 2013



Sustainable Resource Management



Findings

- Residential water use accounts for $\frac{3}{4}$ of total demand
- Toilets use 40% of water indoors.
- Lawns use 32% of water outdoors.
- Kingston Water Department uses 6% of City's energy use to provide water to residents and businesses

Goals by 2020

30 rain gardens have been created in the City, 15 on City owned property
Pervious pavement or pavers are being used to repave City lots and streets
Water and energy use at all City buildings and facilities is being tracked and monitored

[WaterSense](#) high efficiency water saving fixtures are being used to replace or upgrade fixtures in City owned buildings

The number of community and school gardens has doubled
Each school and City building has a successful 'green' cleaning program



Outreach, Education and Training

Findings

Public outreach should be conducted to build public engagement in the process

Work with Common Council, city staff, environmental organizations, public

Goals by 2020

Engage people who live, work and play in the City of Kingston

Improve awareness of opportunities to improve energy efficiency and reduce GHG emissions

Promote and create “Green” Jobs

Empower and expand the Climate Smart and Green Jobs Community Task Force



Adaptation Planning

Findings

Climate Impacts

Sea level rise

Intense Downpours

Extreme Storms and Heat

Short term drought



Goals by 2020

A commitment, a plan and systems are in place to be prepared for and adapt to a changing climate



City of Kingston
Climate Action Planning

Public Comment

- Public Availability
Monkey Joe Roasting Co.
Hudson Valley Coffee Traders
Kingston Library, in reference
City Clerk's office
City Parks and Recreation office
- Executive Summary, Full CAP and Appendices available as PDFs at KingstonCAC.org & Kingston-ny.gov
- Complete Survey Monkey Questionnaire, outlined by CAP section
- Submit written comments during 60 day period
- Midway through Comment Period, held large Public Meeting
- Climate Smart Task Force reviewed, responded and addressed every comment

October 2012, Kingston Climate Action Plan Adopted by Common Council

City of Kingston
Climate Action Planning



Since then

Climate Analyst no longer with City

Climate Smart and Green Jobs Community Task Force
has taken on implementation

- New Name: Branding?
- More Stakeholders

VHB is providing technical support for prioritization of
recommendations (hundreds)

- Consolidate recommendations
- Create apples to apples criteria
- Rank
- Get Community Engaged
- Achieve Goals



Goals

- ❖ Incorporate into Comprehensive Plan
- ❖ Save City Money/Reduce Energy Costs
- ❖ Increase Environmental Stewardship and Climate Planning Awareness
 - ❖ 20 by 20
- ❖ Don't let this be a 268 page document on the shelf. It's a plan for action.

